

Claims

1. An inhibitor of protein-protein interaction inhibiting interaction between PKC theta and KPNA1.
2. An inhibitor of protein-protein interaction inhibiting interaction between KPNA1 and NF-kappa B.
3. An inhibitor of interaction between PKC theta and KPNA1, said inhibitor being obtained by examining whether the interaction between PKC theta and KPNA1 occurs in the presence of PKC theta, KPNA1, and candidate compounds under the conditions allowing interaction between PKC theta and KPNA1, and selecting a candidate compound showing inhibition of the interaction.
4. The inhibitor as set forth in claim 3, wherein said PKC theta is a kinase having a constant phosphorylation activity.
5. An inhibitor of interaction between KPNA1 and NF-kappa B, said inhibitor being obtained by examining whether the interaction between KPNA1 and NF-kappa B occurs in the presence of KPNA1, NF-kappa B, and candidate compounds under the conditions allowing interaction between KPNA1 and NF-kappa B, and selecting a candidate compound showing inhibition of the interaction.
6. A method for detecting an inhibitor of interaction between PKC theta and KPNA1, said method comprising the step of examining whether the interaction between PKC theta and KPNA1 occurs in the presence of PKC theta, KPNA1, and candidate compounds under the conditions allowing

interaction between PKC theta and KPNA1, to detect a candidate compound showing inhibition of the interaction as the inhibitor.

7. The inhibitor as set forth in claim 6, wherein said PKC theta is a kinase having a constant phosphorylation activity.

8. A method for detecting an inhibitor of interaction between KPNA1 and NF-kappa B, said method comprising the step of examining whether the interaction between KPNA1 theta and NF-kappa B occurred in the presence of KPNA1, NF-kappa B, and candidate compounds under the conditions allowing interaction between KPNA1 and NF-kappa B, to detect a candidate compound showing inhibition of the interaction as the inhibitor.

9. A detection kit for an inhibitor of interaction between PKC theta and KPNA1, said kit comprising PKC theta supplying sample and KPNA1 supplying sample.

10. The detection kit for an inhibitor as set forth in Claim 9, wherein said PKC theta supplying sample is a vector containing polynucleotide coding PKC theta, and said KPNA1 supplying sample is a vector containing polynucleotide coding KPNA1.

11. The kit as set forth in claim 9 or 10, wherein said PKC theta is a kinase having a constant phosphorylation activity.

12. A detection kit for an inhibitor of interaction between KPNA1 and NF-kappa B, said kit comprising KPNA1

supplying sample and NF-kappa B supplying sample.

13. The detection kit for an inhibitor as set forth in Claim 12, wherein said KPNA1 supplying sample is a vector containing polynucleotide coding KPNA1, and said NF-kappa B supplying sample is a vector containing polynucleotide coding NF-kappa B.

14. A method for developing a medicine characterized by targeting the interaction between PKC theta and KPNA1 for drug discovery.

15. A method for developing a medicine characterized by targeting the interaction between KPNA1 and NE-kappa B for drug discovery.